

## CLAIMS

What is claimed is:

- 1           1.     A method comprising:  
2                 concatenating data from a plurality of fields of a requested page into a  
3 string;  
4                 encrypting the string;  
5                 serving to a user node, a web page including a form corresponding to  
6 the requested page with the plurality of blank fields and the encrypted string.
- 1           2.     The method of Claim 1 further comprising:  
2                 appending a digital signature to the string prior to encryption.
- 1           3.     The method of Claim 1 further comprising:  
2                 inserting the string and a script into a defined portion of the web page  
3 to be served.
- 1           4.     The method of Claim 3 wherein the defined portion is a Java script  
2 section of the web page.
- 1           5.     The method of Claim 1 further comprising:  
2                 serving a script within the web page, the script to decrypt the string and  
3 apportion the string to the blank fields.
- 1           6.     The method of Claim 1 further comprising:  
2                 serving a security applet to the user node; and

3 receiving login data from the user node encrypted by the security  
4 applet.

1 7. The method of Claim 6 wherein the login data forms a basis for a key  
2 used to encrypt the string.

1 8. The method of Claim 6 wherein the security applet is a Java applet to  
2 perform decryption of the string subsequently sent using a key word from the login  
3 data.

1 9. The method of Claim 6 further comprising:  
2 comparing the login data to a valid login data to identify if the user is  
3 valid; and  
4 denying access if the user is not valid.

1 10. A method comprising:  
2 accepting a frame having a resident security applet;  
3 receiving a subframe including a form with blank fields and an  
4 encrypted string;  
5 decrypting the string with the security applet; and  
6 distributing a plurality of portions of the decrypted string to a plurality  
7 of fields in the form.

1 11. The method of claim 10 wherein distributing comprises:  
2 parsing the string delimited by embedded length and data type.

1 12. The method of claim 10 further comprising:

2 accepting user modification of a field in the form;  
3 encrypting a string using the security applet, the string including at  
4 least a content of the field modified; and  
5 transmitting the string to a remote node.

1 13. The method of claim 10 further comprising:  
2 deriving a key from login data supplied by a user.

1 14. The method of claim 12 wherein the encryption key is based on login  
2 data received from a user.

1 15. The method of claim 10 further comprising:  
2 generating a login window within the frame;  
3 receiving login data from a user; and  
4 receiving the login data in the security applet.

1 16. A computer readable storage media containing executable computer  
2 program instructions which when executed cause a digital processing system to  
3 perform a method comprising:  
4 concatenating data from a plurality of fields of a requested page into a  
5 string;  
6 encrypting the string;  
7 serving to a user node, a web page including a form corresponding to  
8 the requested page with the plurality of blank fields and the encrypted string.

1 17. The computer readable storage media of claim 16 which when executed  
2 cause a digital processing system to perform a method further comprising:  
3 appending a digital signature to the string prior to encryption.

1 18. The computer readable storage media of claim 16 which when executed  
2 cause a digital processing system to perform a method further comprising:  
3 inserting the string and a script into a defined portion of the web page  
4 to be served.

1 19. The computer readable storage media of claim 18 which when executed  
2 cause a digital processing system to perform a method further comprising:  
3 the defined portion is a Java script section of the web page.

1 20. The computer readable storage media of claim 16 which when executed  
2 cause a digital processing system to perform a method further comprising:  
3 serving a script within the web page, the script to decrypt the string and  
4 apportion the string to the blank fields.

1 21. The computer readable storage media of claim 16 which when executed  
2 cause a digital processing system to perform a method further comprising:  
3 serving a security applet to the user node; and  
4 receiving login data from the user node encrypted by the security  
5 applet.

1 22. The computer readable storage media of claim 21 the login data forms a  
2 basis for a key used to encrypt the string.

1           23.    The computer readable storage media of claim 21 wherein the security  
2    applet is a Java applet to perform decryption of the string subsequently sent using a  
3    key word from the login data.

1           24.    The computer readable storage media of claim 21 which when executed  
2    cause a digital processing system to perform a method further comprising:  
3                    comparing the login data to a valid login data to identify if the user is  
4    valid; and  
5                    denying access if the user is not valid.

1           25.    A computer readable storage media containing executable computer  
2    program instructions which when executed cause a digital processing system to  
3    perform a method comprising:  
4                    concatenating data from a plurality of fields of a requested page into a  
5    string;  
6                    encrypting the string;  
7                    serving to a user node, a web page including a form corresponding to  
8    the requested page with the plurality of blank fields and the encrypted string.

1           26.    The computer readable storage media of claim 25 which when executed  
2    cause a digital processing system to perform a method further comprising:  
3                    appending a digital signature to the string prior to encryption.

1           27.    The computer readable storage media of claim 25 which when executed  
2    cause a digital processing system to perform a method further comprising:

3 inserting the string and a script into a defined portion of the web page  
4 to be served.

1 28. The computer readable storage media of claim 27 wherein the defined  
2 portion is a Java script section of the web page.

1 29. The computer readable storage media of claim 25 which when executed  
2 cause a digital processing system to perform a method further comprising:  
3 serving a script within the web page, the script to decrypt the string and  
4 apportion the string to the blank fields.

1 30. The computer readable storage media of claim 25 which when executed  
2 cause a digital processing system to perform a method further comprising:  
3 serving a security applet to the user node; and  
4 receiving login data from the user node encrypted by the security  
5 applet.